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December 1992 ACM Computing Surveys (CSUR), Volume 24 Issue 4

Technique for automatically correcting words in text

Karen Kukich

Full text available: pdf(6.23 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) contextdependent work correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and applicationspecific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statisticallanguage models, word recognition and correction

2 Cyc: toward programs with common sense

Douglas B. Lenat, R. V. Guha, Karen Pittman, Dexter Pratt, Mary Shepherd August 1990 Communications of the ACM, Volume 33 Issue 8

Full text available: pdf(3.98 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Cyc is a bold attempt to assemble a massive knowledge base (on the order of 108 axioms) spanning human consensus knowledge. This article examines the need for such an undertaking and reviews the authos' efforts over the past five years to begin its construction. The methodology and history of the project are briefly discussed, followed by a more developed treatment of the current state of the representation language used (epistemological level), techniques for efficient ...

The FINITE STRING newsletter: Abstracts of current literature

Computational Linguistics Staff

January 1986 Computational Linguistics, Volume 12 Issue 1

Full text available: pdf(2.24 MB) Additional Information: full citation

#### **Publisher Site**

Dynamic switching of coherent cache protocols and its effects on Doacross loops Takashi Matsumoto, Kei Hiraki



August 1993 Proceedings of the 7th international conference on Supercomputing

Full text available: pdf(982.52 KB)

Additional Information: full citation, abstract, references, citings, index terms

In multiprocessor systems, overheads caused by interprocessor communication and synchronization have been one of the largest obstacles for efficient execution of parallel programs. To reduce these overheads in shared-memory/shared-bus multiprocessors, we have proposed two hardware mechanisms: the Inter-Cache Snoop Control Mechanism (ICSCM), which dynamically switches snoop-protocols for improving shared-bus utilization, and the Mechanism for Integrated Synchronization and Communication (MIS ...

Declarative specification of Web sites with S

Mary Fernández, Daniela Florescu, Alon Levy, Dan Suciu

March 2000 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 9 Issue 1

Full text available: pdf(188.65 KB) Additional Information: full citation, abstract, citings, index terms

S is a system for implementing data-intensive Web sites, which typically integrate information from multiple data sources and have complex structure. S's key idea is separating the management of a Web site's data, the specification of its content and structure, and the visual representation of its pages. S provides a declarative query language for specifying a site's content and structure, and a simple template language for specifying a site's HTML representation. This paper ...

Keywords: Declarative query languages, Web-site management

6 Decision support for sentencing in a common law jurisdiction

N. Hutton, A. Patterson, C. Tata

May 1995 Proceedings of the fifth international conference on Artificial intelligence and law

Full text available: pdf(913.53 KB) Additional Information: full citation, references, index terms

Parallel execution of prolog programs: a survey

Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo July 2001 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 23 Issue 4

Full text available: pdf(1.95 MB)

Additional Information: full citation, abstract, references, citings, index terms

Since the early days of logic programming, researchers in the field realized the potential for exploitation of parallelism present in the execution of logic programs. Their high-level nature, the presence of nondeterminism, and their referential transparency, among other characteristics, make logic programs interesting candidates for obtaining speedups through parallel execution. At the same time, the fact that the typical applications of logic programming frequently involve irregular computatio ...

Keywords: Automatic parallelization, constraint programming, logic programming, parallelism, prolog

## 8 REDLOG: computer algebra meets computer logic

Andreas Dolzmann, Thomas Sturn June 1997 **ACM SIGSAM Bulletin**, Volume 31 Issue 2

Full text available: pdf(801.83 KB) Additional Information: full citation, abstract, citings, index terms

REDLOG is a package that extends the computer algebra system REDUCE to a computer logic system, i.e., a system that provides algorithms for the symbolic manipulation of first-order formulas over some temporarily fixed language and theory. In contrast to theorem provers, the methods applied know about the underlying algebraic theory and make use of it. We illustrate some applications of REDLOG, describe its functionality as it appears to the user, and explain the design ...

## 9 Checking for spelling and typographical errors in computer-based text

Thomas N. Turba

June 1981 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN SIGOA symposium on Text manipulation, Volume 16 Issue 6

Full text available: pdf(1.02 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

This paper addresses the problems and techniques of checking for spelling and typographical errors in computer-based text. To some extent, the paper is a combination of a report of work done by the author and a survey of other work which, although not all used by the author, is of equal value and interest. Some of the material presented is related to other aspects of text processing such as data compaction and the efficient searching of very large dictionaries.

# 10 User authentication through keystroke dynamics

Francesco Bergadano, Daniele Gunetti, Claudia Picardi

November 2002 ACM Transactions on Information and System Security (TISSEC), Volume 5 Issue 4

Full text available: pdf(351.02 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>, <u>review</u>

Unlike other access control systems based on biometric features, keystroke analysis has not led to techniques providing an acceptable level of accuracy. The reason is probably the intrinsic variability of typing dynamics, versus other---very stable---biometric characteristics, such as face or fingerprint patterns. In this paper we present an original measure for keystroke dynamics that limits the instability of this biometric feature. We have tested our approach on 154 individuals, achieving a F ...

**Keywords**: Biometric techniques, keystroke analysis

# 11 Textual bloopers: an excerpt from GUI bloopers

Jeff Johnson

September 2000 interactions, Volume 7 Issue 5

Full text available: pdf(734.19 KB) Additional Information: full citation, index terms

# 12 Using the Alfa-1 simulated processor for educational purposes

Gabriel A. Wainer, Sergio Daicz, Luis F. De Simoni, Demian Wassermann
December 2001 Journal on Educational Resources in Computing (JERIC), Volume 1 Issue 4

Full text available: pdf(238.65 KB) Additional Information: full citation, abstract, references, index terms

Alfa-1 is a simulated computer designed for computer organization courses. Alfa-1 and its



accompanying toolkit allow students to acquire practical insights into developing hardware by extending existing components. The DEVS formalism is used to model individual components and to integrate them into a hierarchy that describes the detailed behavior of different levels of a computer's architecture. We introduce Alfa-1 and the toolkit, show how to extend existing components, and describe how ...

Keywords: DEVS formalism, modeling computer architectures, systems specification

13 Multimedia and visualization: Dynamic structuring of web information for access visualization

Jess Y. S. Mak, Hong Va Leong, Alvin T. S. Chan March 2002 Proceedings of the 2002 ACM symposium on Applied computing

Full text available: pdf(765.23 KB) Additional Information: full citation, abstract, references, index terms

The Internet has led to the formation of a global information infrastructure. To explore a web site, a site map would be useful as a short cut for a user to locate for the target information in a structured and efficient manner, rather than drilling into the web site following hyperlinks, reading possibly irrelevant information. Useless information impacts a mobile web environment, where mobile clients are only connected with unreliable wireless channels of limited bandwidth. Structured web page ...

Keywords: DOM, VRML, XML, visualization, web document structure

14 The structure of user-adviser dialogues: is there method in their madness?

Raymonde Guindon, Paul Sladky, Hans Brunner, Joyce Conner

July 1986 Proceedings of the 24th conference on Association for Computational Linguistics

Full text available: pdf(653.30 KB) Publisher Site

Additional Information: full citation, abstract, references

Novice users engaged in task-oriented dialogues with an adviser to learn how to use an unfamiliar statistical package. The users' task was analyzed and a task structure was derived. The task structure was used to segment the dialogue into subdialogues associated with the subtasks of the overall task. The representation of the dialogue structure into a hierarchy of subdialogues, partly corresponding to the task structure, was validated by three converging analyses. First, the distribution of non- ...

15 The event calculus and consistency maintenance

Stephen Pimentel, John L. Cuadrado

June 1990 Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems -Volume 2

Full text available: pdf(564.53 KB) Additional Information: full citation, abstract, references, index terms

The relationship between nonmonotonic formalisms and the problem of temporal projection has long been recognized, though not well understood. The straightforward application of various nonmonotonic formalisms (circumscription, default logic, etc.) has been blocked by the multiple-extension problem [Hanks and McDermott 87], where a seemingly intuitive set of axioms gives rise to extensions (or minimal models, depending on the formalism) other than the one desired. However, r ...

16 Efficiency of data structures for detecting overlaps in digital documents Krisztián Monostori, Arkady Zaslavsky, Heinz Schmidt January 2001 Australian Computer Science Communications, Proceedings of the 24th

# Australasian conference on Computer science, Volume 23 Issue 1

Full text available: pdf(800.51 KB)

Additional Information: full citation, abstract, references

Publisher Site

This paper analyses the efficiency of different data structures for detecting overlap in digital documents. Most existing approaches use some hash function to reduce the space requirements for their indices of chunks. Since a hash function can produce the same value for different chunks, false matches are possible. In this paper we propose an algorithm that can be used for eliminating those false matches. This algorithm uses a suffix tree structure, which is space consuming. We define a modified ...

## 17 Worlds: an organizing structure for object-bases

David S Wile, Dennis G Allard

January 1987 ACM SIGPLAN Notices, Proceedings of the second ACM SIGSOFT/SIGPLAN software engineering symposium on Practical software development environments, Volume 22 Issue 1

Full text available: pdf(1.44 MB)

Additional Information: full citation, abstract, references, citings, index terms

Object-bases are certain to supplant today's file systems in future program development environments. Unfortunately, file systems implicitly provide several important environmental features that are difficult or impossible to obtain using existing object-bases, such as focus of attention, garbage detection and collection, and data sharing. These deficiencies arise from the absence of mechanisms for naming and maintaining aggregations of information in structures larger than single relations ...

## 18 Efficient passage ranking for document databases

Marcin Kaszkiel, Justin Zobel, Ron Sacks-Davis

October 1999 ACM Transactions on Information Systems (TOIS), Volume 17 Issue 4

Full text available: pdf(328.98 KB)

Additional Information: full citation, abstract, references, citings, index terms

Queries to text collections are resolved by ranking the documents in the collection and returning the highest-scoring documents to the user. An alternative retrieval method is to rank passages, that is, short fragments of documents, a strategy that can improve effectiveness and identify relevant material in documents that are too large for users to consider as a whole. However, ranking of passages can considerably increase retrieval costs. In this article we explore alternative query evalua ...

Keywords: inverted files, passage retrieval, query evaluation, text databases, text retrieval

19 Compiling nested data-parallel programs for shared-memory multiprocessors Siddhartha Chatterjee

July 1993 ACM Transactions on Programming Languages and Systems (TOPLAS),

Volume 15 Issue 3

Full text available: pdf(4.17 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: compilers, data parallelism, shared-memory multiprocessors

<sup>20</sup> Templar: a knowledge-based language for software specifications using temporal logic Alexander Tuzhilin

July 1995 ACM Transactions on Information Systems (TOIS), Volume 13 Issue 3

Full text available: pdf(2.54 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

A software specification language Templar is defined in this article. The development of the language was guided by the following objectives: requirements specifications written in Templar should have a clear syntax and formal semantics, should be easy for a systems analyst to develop and for an end-user to understand, and it should be easy to map them into a broad range of design specifications. Templar is based on temporal logic and on the Activity-Event-Condition-Activity model of a rule ...

Keywords: activities, events, rule-based systems, specification languages, temporal logic, time

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